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Reserve The Prince States Department of Agriculture, FEB 23 1922 P69 FEB A STATION FILE WASHINGTON, D. C. FILE COPY Do not remove BROMUS INERMIS. Bromus inermis, most commonly called brome-grass, sometimes smooth brome or Hungarian brome, is a vigorous perennial, possessing aggressive underground rootstocks by which it propagates quite readily. In general it grows from 18 to 36 inches high, but under favorable conditions it attains the height of 4 feet or more. Although the grass is inclined to mat at the base, it produces quite an abundance of leaves all the way up the stem. The seed is borne in an open panicle, resembling quite closely the well-known cheat, and is produced

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Brome-grass was introduced into this country from Europe about 1880 and has attained considerable importance in North Dakota, South Dakota, and in the Pacific Northwest. It is grown to some extent from Kansas north to the boundary and west to the Pacific coast. It is not grown to any extent through out the timothy region. Brome-grass is capable of withstanding extended periods of drought to a remarkable degree, also sever cold, but it is seriously affected by heat and consequently can not be grover successful it is seriously affected by heat and consequently can not be grover successful it is seriously applied with inums. It will, however, do well on sandy and gravelly land.

Use and value.—Bromus incrnis is a valuable grass, both for hay and pasture, but is of the most importance for the latter. It stands grazing and trampling well and affords pasture early in the spring and late in the fall. On account of its rootstock habit fit can be used to better advantage for pasture on sandy soil than most cultivated grasses. It can also be grazed closely by sheep without serious injury. It is very palatable and is reliased by all kinds of stock. It makes good hay and yields well for two or three years, after which time the meadow appears to become sod bound, and the yield rapidly decreases unless the field is given some treatment. The hay is of rather a chaffy character and is not so valuable for horses as is timothy. It is a good feed for cattle and is said by ranchmen to be excellent feed for sheep. Yields average from 1 to 4 tons per acre. During the life of the meadow the comparative range of yields when no treatment is given is about as follows: The year following seeding, a rather light yield; second year, maximum; third year, considerable decrease; and fourth year, light. After t

The life of a brome-grass meadow not rejuvenated in any way is about four years. After this it appears to become very badly sod bound, and the yield is very materially decreased. A thorough disking early in the spring when the field is in this condition seems to be very effective in increasing the yield, and a good top-dressing with barnyard manure also gives excellent results. In the Canadian Northwest it is quite a common practice to plow the sod-bound fields shallow in the spring. This method is very effective in bringing the meadow back to a state of high productiveness.

The best method for breaking up a meadow is to plow after a crop of hay has been removed, which is during the month of July, and backset early in the fall or late the next spring, and sow to whatever crop is desired. Heavy yields following brome-grass are almost invariably obtained.

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